

CYCLE OF LIGHT

Beyond Championship

THE WORLD LEADING SOLAR TECHNOLOGY COMPANY

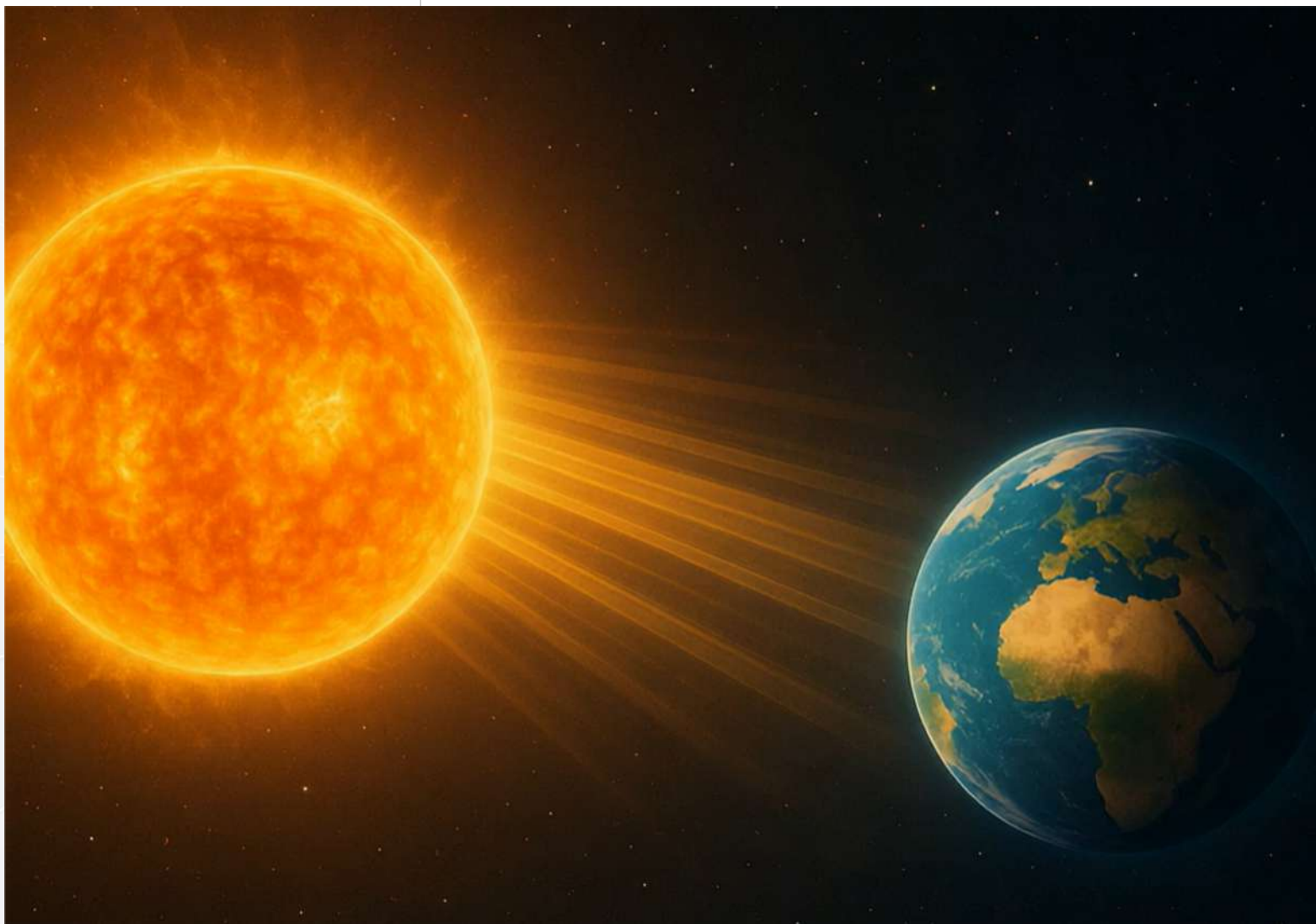
7th Renewable & Storage
Forum
LONGi


October 2025



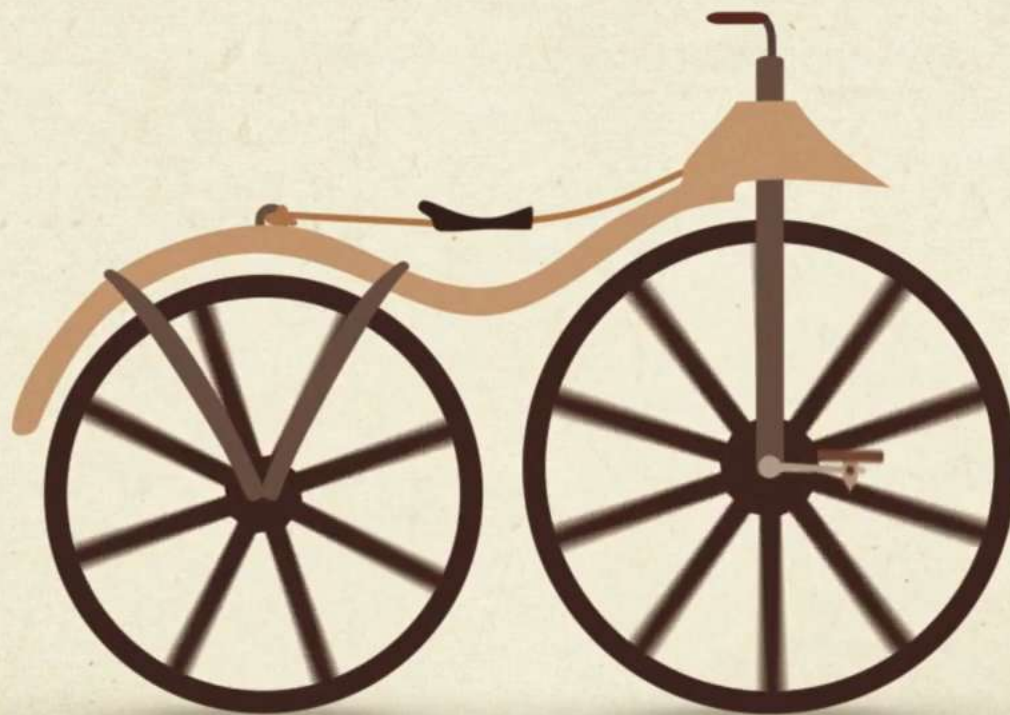
Two minutes of sun enough to power a year's usage of humanity


Every two minutes, the energy reaching the earth from the sun is equivalent to the whole annual energy use of humanity





Energy Transformation and The Path of High Efficiency





Energy Transformation and The Path of High Efficiency



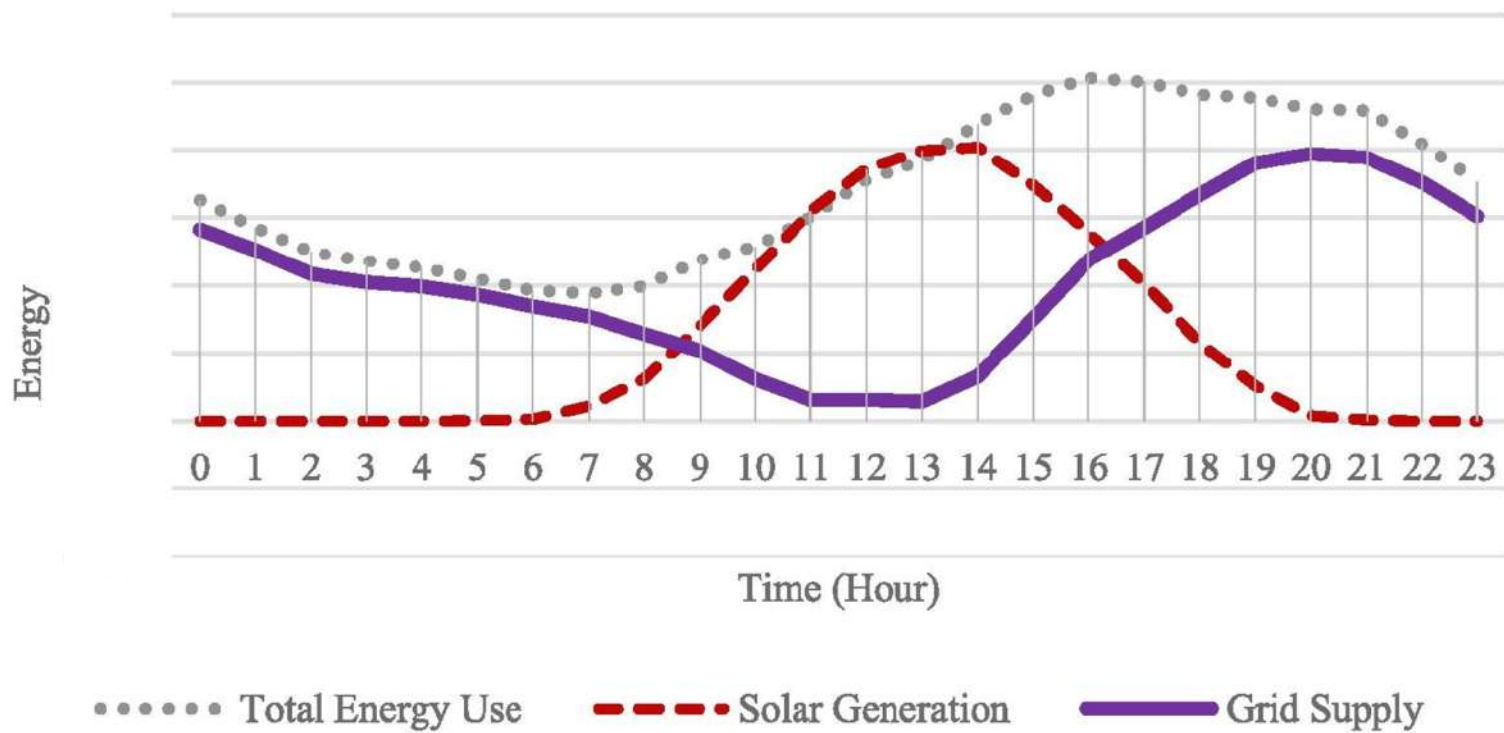
- Χαμηλές τιμές (Low tariffs)
- Περικοπές (Curtailments)
- Δενδροφύτευση (Tree Zoning)
- Αξιοπιστία Εξοπλισμού (Equipment Reliability)





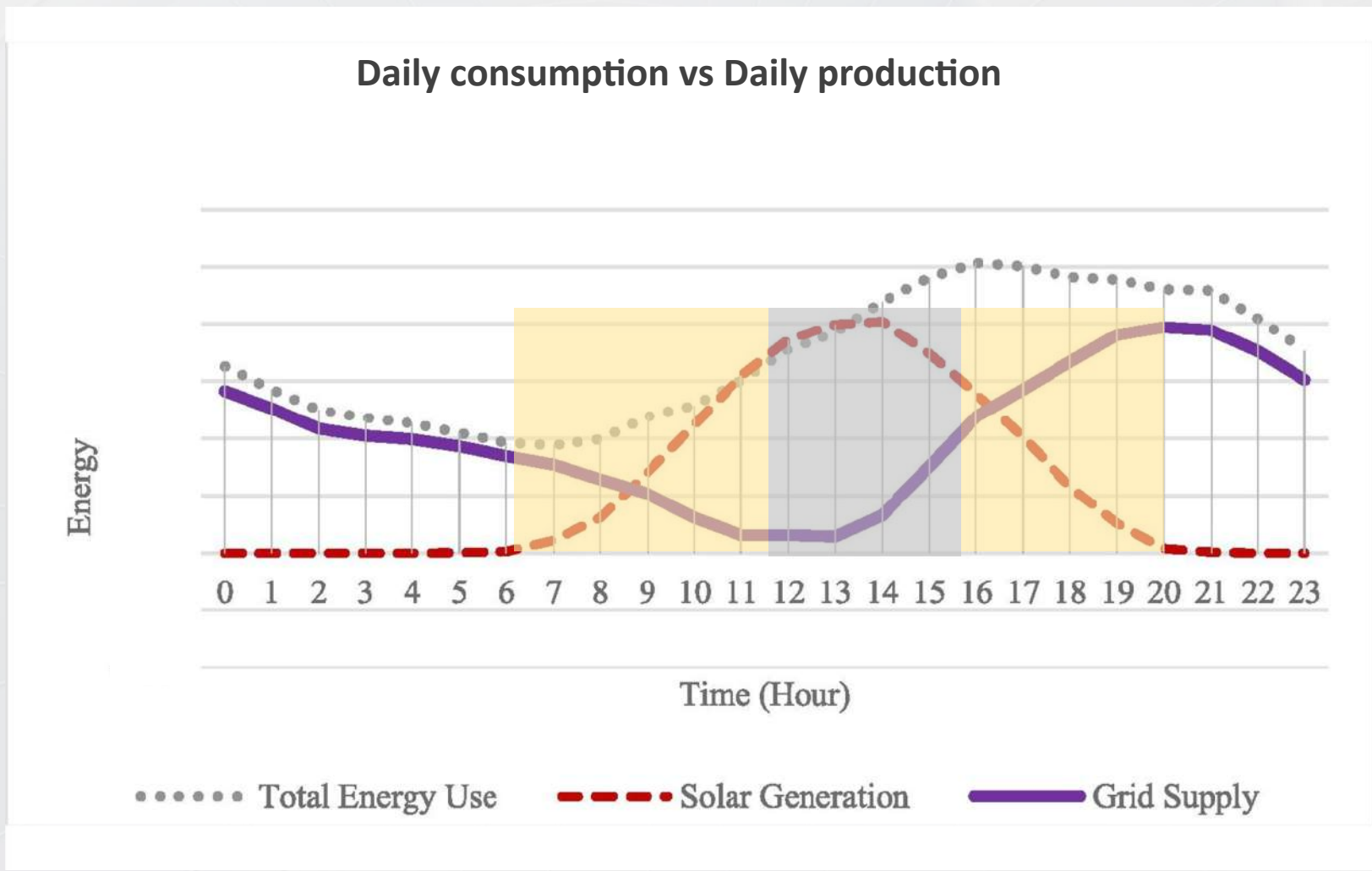
Daily consumption vs Daily production

Daily consumption vs Daily production



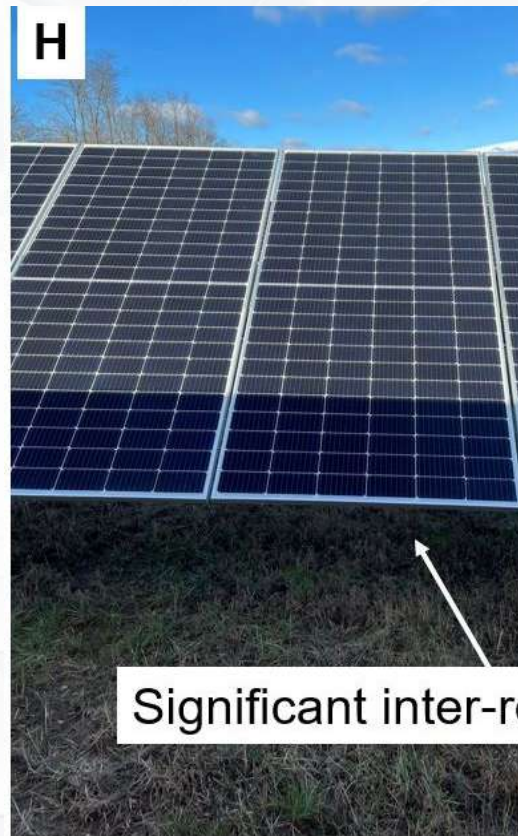


Daily consumption vs Daily production





Daily Partial Shading



Significant inter-row shading at 10 am

Technology Innovation

LONGi, Prioritizing the Essence of Conversion Efficiency

Relentlessly extend the leadership landscapes by researching and developing innovative technologies.



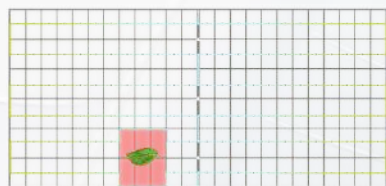
causing the temperature of shaded areas to rise dramatically due to **hotspot effects**.



2%-4% Power Generation Gain Across All Scenarios

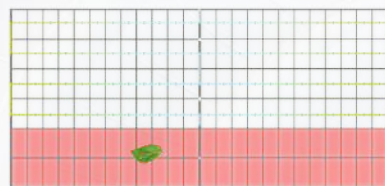
0.2%-0.6% power generation gain under shading
Anti-shading | Lower Power Loss

Hi-MO 9



Independent cell-level bypass under shading
Maintains string power output
Minimizes power loss

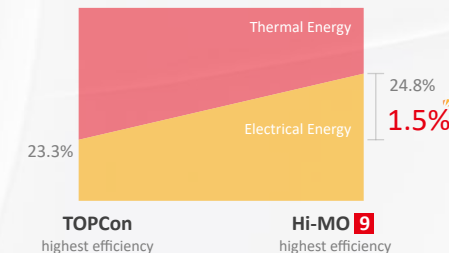
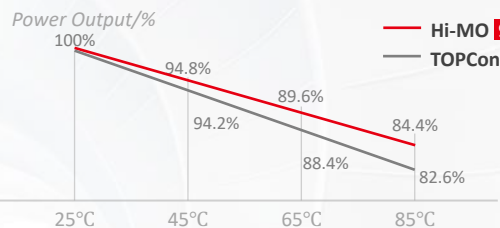
TOPCon



Conventional modules suffer significant string-level power loss when individual cells are shaded due to full-string bypass activation

0.8%-1.3% power generation gain from temperature coefficient
Lower Operating Temperature | Superior Temperature Coefficient

Power Difference Under Different Temperature



According to the law of energy conservation:

Higher efficiency, Higher power output, Less heat generation, Lower operating temperature. BC products demonstrate 1.3% higher efficiency than TOPCon, resulting in cooler operation. Combined with a superior temperature coefficient, this translates to significantly greater energy yield

1%-1.5% power generation gain from low degradation
Lower Annual Degradation | Sustained High-Efficiency Output

30-Year Module Power Degradation Comparison



1st Year Degradation

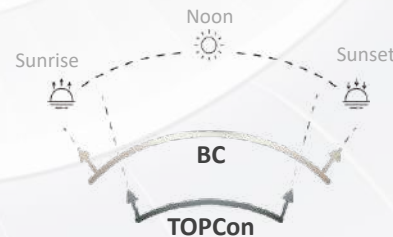
≤1.0%

Annual Degradation

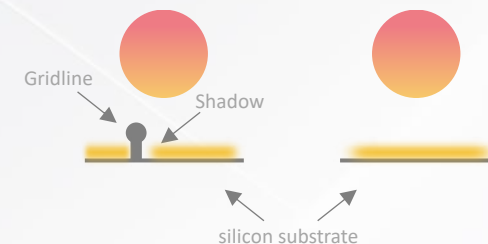
≤0.35%

30-Year Linear Power Warranty
Sustained Energy Production
Lower attenuation rate
Lower mismatch losses
Lower coefficient of loss 2.36%
Lower risk of mismatch

0.02%-0.08% power generation from low irradiation performance
Start work earlier | Finish work later



Modules with high open-voltage characteristics for faster access to the inverter operating voltage
Longer power generation hours throughout the day



TOPCon Grid line blocking light
Hi-MO 9 No blocking of the light



Real-world project in Inner Mongolia



New benchmark in desert solar performance

2.45% increase in power generation per kW than conventional TOPCon

These results set a new standard for reliability and efficiency in large-scale PV installations facing extreme environments.



Sustainability Commitment

LONGi, Relentlessly Driving Towards a Sustainable Future

On the way of fulfilling our commitment, we focus on our major responsibility and drive it into sustainable results.

Outlook on Module Power



LONGi breaks through technological limits and leads the photovoltaic industry, consistently reaching new heights in areas such as product innovation and leveled cost of electricity.

The size of all Module Dimensions is 2382*1134mm

Theoretical limit of crystalline silicon
29.4%

710 W HBC
695 W HPBC 2.0

- Intelligent Module Technology
- Advanced Metallization
- Intelligent Welding
- Unique structure application

2027

800 W+

- TANDEM Cell
- Layer Firing
- Double Layer Coating
- High-compatibility Flexible Design

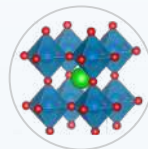
2030

Tandem
36%+

900 W+

- Mechanical Stacking
- Zero-spacing splicing
- Wire-band tunneling passivated contact
- Localized Structure

2031



680 W HBC
670 W HPBC 2.0

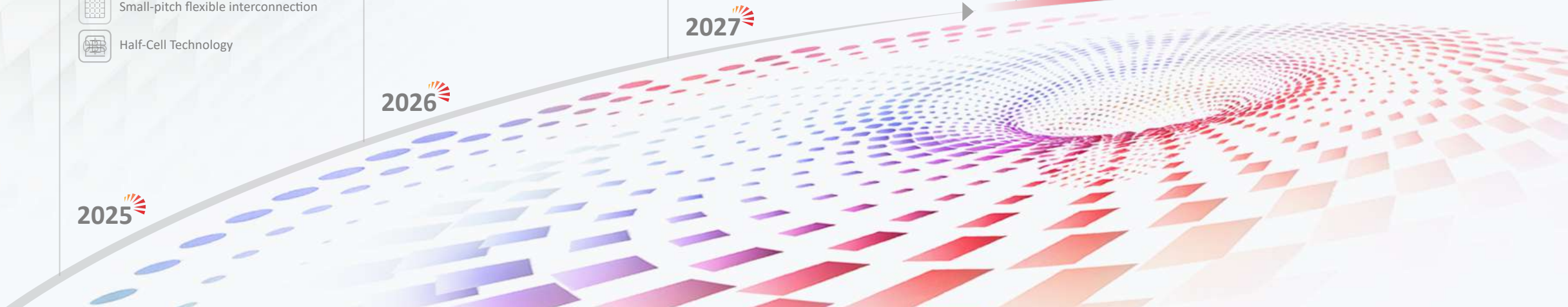
- OBB Technology
- High-Efficiency Passivation
- High-Efficiency Coating
- Small-pitch flexible interconnection
- Half-Cell Technology

2025

695 W HBC
680 W HPBC 2.0

- Multi-Shingling Technology
- High Density encapsulation
- Bifacial passivation
- Digital Screen Printing

2026





LONGi, the Pioneer of Energy Transition

Has Been Dedicated to Restoring the Earth and Bringing Back the Eden for 25 Years.